AREA SOURCE OVERVIEW

Disclaimer: This information may be outdated. Emissions inventories are refined and changed as new information is received. Please visit http://www.airquality.utah.gov/Public-Interest/Current-Issues/pm2.5/pm25meetings.html or call Joel Karmazyn at 801-536-4423 for the most updated information.

Area Sources are small sources that do not qualify as point sources under the relevant emissions cutoffs. Area sources encompass widespread sources that may be abundant, but that, individually, release small amounts of a given pollutant. These are sources for which emissions are estimated as a group rather than individually.

The main distinction between point and area sources is the methodology used to estimate emissions. Point sources are inventoried individually, and area sources are inventoried collectively. Estimates of most area sources are calculated using activity data (population, employment, vehicle miles traveled, etc.) multiplied by an emission factor. Emission factors are obtained from EPA documents or derived by using EPA methodology.

Following is an example of how area source emissions are calculated.

Graphic Arts

The graphic arts emissions are calculated using the amount of solvents sold for printing inks and multiplying by the number of employees in the following categories.

CATEGORY

Printing

Corrugated and Solid Fiber Box Manufacturing

Folding Paperboard Box Manufacturing

Setup Paperboard Box Manufacturing

Fiber Can, Tube, Drum, and Similar Products Manufacturing

Nonfolding Sanitary Food Container Manufacturing

Coated and Laminated Packaging Paper Manufacturing

Coated and Laminated Paper Manufacturing

Coated Paper Bag and Pouch Manufacturing

Uncoated Paper and Multiwall Bag Manufacturing

Laminated Aluminum Foil Manufacturing for Flexible Packaging

Surface Coated Paperboard Manufacturing

Die-Cut paper and Paperboard Office Supplies Manufacturing

Envelope Manufacturing

Stationary, Tablet, and Related Product Manufacturing

Sanitary Paper Product Manufacturing

All Other Converted Paper Product Manufacturing

The emission factor (1,482 lbs/employee) is calculated by taking the amount of solvent in printing inks sold nationally (1,325 million pounds in 2007) and dividing it by the total number of employees in the graphic arts industry (894,170 in the US).

The number of Utah employees in each county in the graphic arts industry is derived by the EPA from Census Bureau data.

In certain cases, facilities only reported the number of employees in a range to obtain confidentially. The midpoint of the range was used to estimate the number of employees in these cases.